PARSONS



TECHNICAL MEMORANDUM

Tar Seep Sampling and Removal

Former Barrett Manufacturing Site

Brooklyn, New York

This memorandum summarizes the results of tar seep sampling and removal that was performed in accordance with the scope of work approved by NYSDEC on July 25, 2018. The field work was conducted on August 10, 2018.

Photographs of the tar sampling and removal are attached.

Tar Sampling

Tar sampling was conducted at the tar seep locations listed below and identified on Figure 1:

- 1. SEEP1
- 2. SEEP2
- 3. SEEP3
- 4. SEEP4

Tar seeps were sampled using a steel chisel and stainless-steel knife.

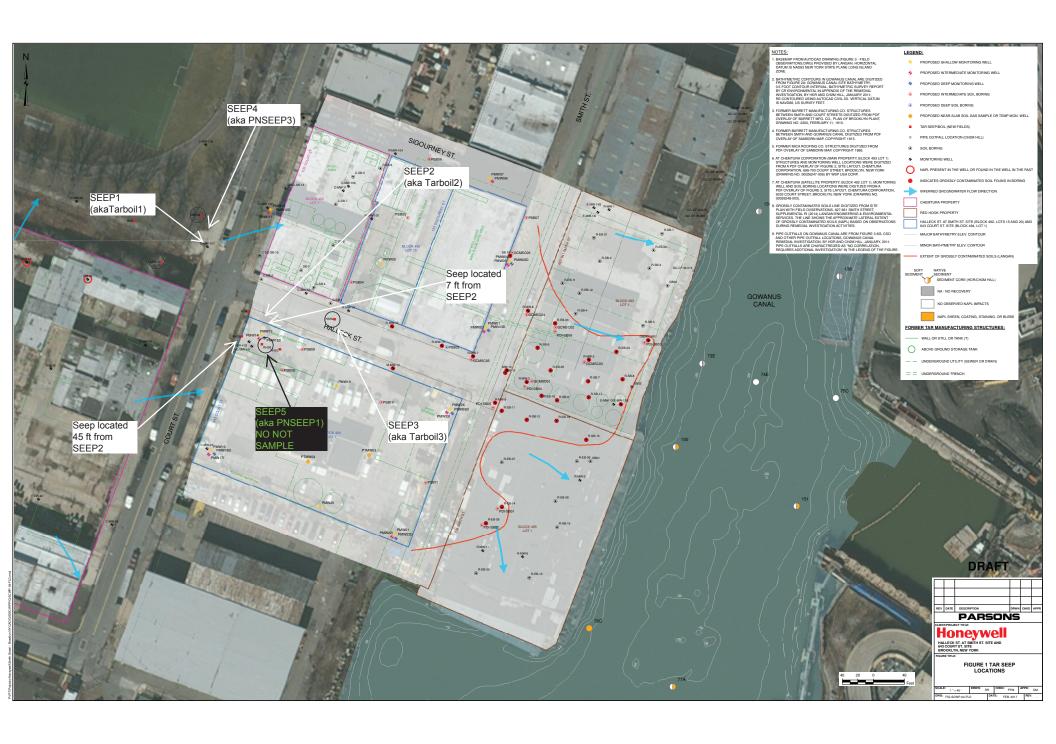
Two additional tar seeps were observed to be present in the side walk along Halleck and Court streets near a chain-link fence and proximate to SEEP2 as described below; these seeps were not sampled, but were removed as described below.

Tar Removal

After the tar seeps samples were collected, the tar was removed from the ground surface using hand held tools and placed in a 55-gallon drum for proper off-site disposal. Tar seeps were removed at the following locations:

- 1. SEEP1
- 2. SEEP2
- 3. SEEP3
- 4. SEEP4
- 5. Seep located 7 feet from SEEP 2 on Halleck St. (along fence)
- 6. Seep located 45 feet from SEEP 2 on Court St. (along fence)

A mixture of stone dust and fine sand was applied to the ground surface where the tar was removed to bind any residual material. Topsoil was also applied at several locations to replace topsoil removed during the seep removal process.



Pre-sampling



SEEP1

Post-removal



Post-removal w/ sand/stone dust





SEEP2

Pre-sampling



Post-removal

Post-removal w/ sand/stone dust and top soil





Pre-sampling

SEEP3



Post-removal

Post-removal w/ sand/stone dust





Pre-sampling

SEEP4



Post-removal

Post-removal w / topsoil





Pre-removal

Seep located 7 ft from SEEP2 (Halleck St.)

Post-removal w / sand/stone dust





Pre-removal

Seep located 45 ft from SEEP2 (Court St.)

Post-removal w / sand/stone dust

